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EXAMINER

DANIEL JR, WILLIE J

ART UNIT	PAPER NUMBER
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2617

DATE MAILED: 07/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/805,929	Applicant(s) LEE, DONG-YOUL	
	Examiner Willie J. Daniel, Jr.	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 16-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 16-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

1. This action is in response to applicant's amendment filed on 14 December 2005. **Claims 16-27** are now pending in the present application. In addition, this action also is in response to applicant's petition filed on 08 April 2005 and 31 May 2005.

Claim Objections

2. **Claims 25-27** are objected to because of the following informalities:
 - a. Regarding claim 25, Applicant states "...**an** MS..." on line 2 of the claim. Examiner interprets as "...**a** MS...".
 - b. Regarding claim 26, Applicant states "...**an** MS..." on line 3 of the claim. Examiner interprets as "...**a** MS...".
 - c. Regarding claim 27, Applicant states "...**an** MS..." on line 2 of the claim. Examiner interprets as "...**a** MS...".

Appropriate correction is required.

The objections above as applied in the office action mailed on 28 March 2005 are hereby maintained.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 19 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Widergen et al. (hereinafter Widergen) (US 5,890,064).

Regarding **claim 19**, Widergen discloses a call originating service method in a public/private common mobile communication system (100), the method comprising:

providing a public land mobile network (PLMN) (102) comprising a base station transceiver subsystem (BTS) (114) adapted to form a public cell area that is interworked with a private mobile communication network (142) comprising a BTS adapted to form a public/private common cell area (142) enabling a subscriber (120) to be provided with both a public mobile communication service and a private mobile communication service using a single mobile station (120) in said public/private common cell area (142) (see col. 3, line 61 - col. 4, line 19; col. 4, lines 27-33; Fig. 1);

determining whether a call origination message is a public mobile communication service request message or a private mobile communication service request message upon receiving the call origination message for requesting origination of a call from a mobile station (CMT - 120) in the public/private common cell area through the BTS (126) in the private mobile communication network (142) (see col. 7, lines 4-22,55-67; col. 9, lines 1-67), where calls for communication are routed to a mobile located in the public or private system; and

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transmitting the call origination message to the PLMN when the call origination message is a public mobile communication service request message (see col. 7, lines 4-15; col. 9, lines 39-58; col. 12, lines 34-37; col. 13, lines 34-67), and

providing a corresponding private mobile communication service when the call origination message is a private mobile communication service request message (see col. 7, lines 4-22,55-62).

Regarding **claim 27**, Widergen discloses the method of claim 19, the public/private common cell (142) area providing both public mobile and private mobile services to an MS (120) located within the common cell, both public mobile and private mobile services being available to the MS without requiring the MS to move or roam to a different location (see Fig. 1), where the mobile terminals with area (142) are able to have public and private communication services.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 16-18 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widergen et al. (hereinafter Widergen) (US 5,890,064) in view of Mauger et al. (hereinafter Mauger) (US 5,537,610).

Regarding **claim 16**, Widergen discloses a call originating service method in a public/private common mobile communication system, the method comprising:

providing the telecommunications network (100) which reads on the claimed “public/private common mobile communication system” comprising a plurality of mobile terminals (116) which reads on the claimed “mobile stations (MSs)”, a mobile switching center (MSC) (112), a plurality of public mobile communication network base station controllers (BSCs) connected to the MSC (112), a plurality of public mobile communication network base station transceiver subsystems (BTSs) (114) connected to each of the plurality of BSCs, each of the plurality of these BTSs adapted to form a corresponding public-only coverage area (140) which reads on the claimed “cell area”, a wireless office gateway (124) which reads on the claimed “public/private communication service unit” connected to one of the public mobile communication network's BSCs, and a RAN (126 - “includes radio equipment of RAN”; see col. 5, line 40-41) which reads on the claimed “private BTS” connected to the public/private communication service unit (124), the private BTS (126)

adapted to form a public/private common cell area, one of said plurality of Mss being within said public/private common cell area (see col. 3, lines 61 - col. 4, line 25; Fig. 1), where the telecommunication network includes public and private coverage areas. The network including BSCs for controlling BS (114) as part of a base station subsystem and a plurality of network components would be obvious (see col. 4, lines 8-10,1-4), where the amount of components for the network can vary depending on factors such as size and scalability. ;

receiving at the public/private communication service unit (124) a call setup messages which reads on the claimed "call origination message" from the MS (122) in the public/private common cell area (142) through the private BTS (126) (see col. 7, lines 4-12,55-62; Fig. 1), where the network applies call setup messages for communicating with the terminals of the network;

determining whether the MS (120) in the public/private common cell area (142) is registered for a private mobile communication service by analyzing the received call origination message (see col. 7, lines 16-22,55-62), where the PN is used for determining if communication is for the corporate terminal (e.g., CMT - 120);

transmitting transparently the call origination message when the MS (11) in the public/private common cell area (142) is not registered for the private mobile communication service (see col. 13, lines 34-57), where calls from public mobile terminals (PMT) within the wireless office system (142) are transmitted to the MSC (112) which indicates the PMT are guest and not registered for the private cell area. The communication between the WO Gateway (124) and MSC (112) is via a trunk line (C) (see Fig. 1), and

determining whether identification information for the private mobile communication service is included in the call origination message when the MS (120) in the public./private common cell area (142) is registered for the private mobile communication service (see col. 7, lines 4-22; col. 7, line 56 - col. 8, line 6); and

transmitting transparently the call origination message when the identification information (PN) is not included in the call origination message (see col. 7, lines 4-22; col. 13, lines 34-57), where calls for public mobile terminals (PMT) are directed to the MSC (112) which indicates the PMT do not have a PN, and

providing private mobile communication service for the MS (120) in the public/private common cell area when the identification information (PN) is included in the call origination message (see col. 7, lines 4-22), where the calls are directed to corporate terminals (120) according to the PN. Widergen fails to disclose having the feature of transmitting a call origination message to one of said plurality of public mobile communication network BSC. However, the examiner maintains that the feature of transmitting a call origination message to one of said plurality of public mobile communication network BSC was well known in the art, as taught by Mauger.

In the same field of endeavor, Mauger discloses the feature of transmitting a call origination message to one of said plurality of public mobile communication network BSC (63) (see col. 11, line 66 - col. 12, line 2; col. 11, lines 49-53; col. 14, lines 41-48; col. 15, lines 20-27; Figs. 24, 27), where the calls are transmitted between the PABX (60) to a BSC (63) which is an intelligent BSC with MSC functionality.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen and Mauger to have the feature of transmitting a call origination message to one of said plurality of public mobile communication network BSC, in order to allow a call to be transmitted from PABX to a BSC, as taught by Mauger.

Regarding **claim 17**, Widergen discloses of a public/private common mobile communication system (100) adapted to provide a public/private mobile communication service in association with a public land mobile network (PLMN) (102) (see Fig. 1), the system comprising:

a plurality of mobile stations (MSs) (116), a mobile switching center (MSC) (112), a plurality of public mobile communication network base station controllers (BSCs) connected to the MSC (112), and a plurality of public mobile communication network base station transceiver subsystems (BTSSs) (114) connected to the BSC's, each of the plurality of public mobile communication network BTSSs being adapted to form corresponding public-only cell areas (140) (see col. 4, lines 4-16), where the network includes a base station (114) in which the BSC would be obvious for controlling the base station. Also, the plurality of components would be obvious according to factors such as size and scalability (see col. 4, lines 8-10);

a private BTS (126) connected to the public/private communication service unit (124), the private BTS (126) adapted to form a public/private common cell area (142), the public/private communication service unit (124) receives a call origination message from a

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particular one of the plurality of MSs (120) located in the public/private common cell area (142) through the private BTS (126) (see col. 7, lines 4-22,55-62; Fig. 1),

the public/private communication service unit (124) being configured to transparently transmit the call origination message when the call origination message is a public mobile communication service request message (see col. 10, line 56 - col. 11, line 1; col. 13, lines 34-57), where calls for the public system is routed between the WO Gateway (124) and the MSC (112) via the trunk line,

the public/private communication service unit (124) being configured to provide network access for a corresponding private mobile communication service when the call origination message is a private mobile communication service request message (see col. 5, lines 60-67; col. 7, lines 55-62). Widergen fails to disclose having the features a public/private communication service unit connected to one of said plurality of public mobile communication network BSCs; transmitting the call origination message to one of the plurality of public mobile communication network BSCs. However, the examiner maintains that the features a public/private communication service unit connected to one of said plurality of public mobile communication network BSCs; transmitting the call origination message to one of the plurality of public mobile communication network BSCs was well known in the art, as taught by Mauger.

Mauger further discloses the feature a PABX (60) which reads on the claimed "public/private communication service unit" connected to one of said plurality of public mobile communication network BSCs (63) (see col. 14, lines 42-58; col. 15, lines 20-23; Figs. 24, 26, 27);

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transmitting the call origination message to one of the plurality of public mobile communication network BSCs (63) (see col. 11, line 66 - col. 12, line 2; col.11, lines 49-53; col. 14, lines 41-48; col. 15, lines 20-27; Figs. 24, 27), where the calls are transmitted between the PABX (60) to a BSC (63) which is an intelligent BSC with MSC functionality.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen and Mauger to have the features a public/private communication service unit connected to one of said plurality of public mobile communication network BSCs; transmitting the call origination message to one of the plurality of public mobile communication network BSCs, in order to allow a call to be transmitted from PABX to a BSC, as taught by Mauger.

Regarding **claim 18**, Widergen discloses a call originating service method in a public/private common mobile communication system (100) (see Fig. 1), the method comprising:

providing the public/private common mobile communication system (100) comprising a plurality of mobile stations (MSs) (116), a mobile switching center (MSC) (112), a plurality of public mobile communication network base station controllers (BSCs) connected to the MSC (112), a plurality of public mobile communication network base station transceiver subsystems (BTSSs) (114) connected to each of the BSC's, each of the plurality of public mobile communication network BTSSs (114) adapted to form a corresponding public-only cell area (coverage area) (140) (see col. 3, line 61 - col. 4, line 16), where the network includes a base station (114) in which the BSC would be obvious for controlling the base station. Also,

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the plurality of components would be obvious according to factors such as size and scalability (see col. 4, lines 8-10),

a private BTS (126) connected to the public/private communication service unit (124), the private BTS (126) adapted to form a public/private common cell area (142) (see Fig. 1);

determining whether a call origination message is a public mobile communication service request message or a private mobile communication service request message upon receiving the call origination message that requests origination of a call from one of said plurality of mobile stations (120) located in said public/private common cell area (142) through the private BTS (126) (see col. 7, lines 4-22,55-67; col. 9, lines 1-67), where calls for communication are routed to a mobile located in the public or private system; and

transmitting transparently the call origination message to a PLMN (102) when the call origination message is a public mobile communication service request message (see col. 7, lines 4-15; col. 9, lines 39-58; col. 12, lines 34-37; col. 13, lines 34-67), and

providing a corresponding private mobile communication service when the call origination message is a private mobile communication service request message (see col. 7, lines 4-22,55-62). Widergen fails to disclose having the feature a public/private communication service unit connected to a particular one of the plurality of public mobile communication network BSCs. However, the examiner maintains that the feature a public/private communication service unit connected to a particular one of the plurality of public mobile communication network BSCs was well known in the art, as taught by Mauger.

Mauger further discloses the feature a public/private communication service unit (60) connected to a particular one of the plurality of public mobile communication network BSCs (63) (see col. 14, lines 42-58; col. 15, lines 20-23; Figs. 24, 26, 27);

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen and Mauger to have the feature a public/private communication service unit connected to a particular one of the plurality of public mobile communication network BSCs, in order to allow a call to be transmitted from PABX to a BSC, as taught by Mauger.

Regarding **claim 25**, Widergen discloses the method of claim 16, the common cell area (142) being an area that provides both public mobile and private mobile communication services to an MS (120) within the area without requiring the MS to roam (see Fig. 1), where the mobile terminals with area (142) are able to have public and private communication services.

Regarding **claim 26**, Widergen discloses the method of claim 16, a public/private communication service unit (e.g., 142) and the private BTS (e.g., 126) providing both public and private mobile services simultaneously and without requiring an MS in the common cell area to roam to a new location to receive (see Fig. 1), where the mobile terminals with area (142) are able to have public and private communication services.

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Claims 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widergen et al. (hereinafter Widergen) (US 5,890,064) in view of Mauger et al. (hereinafter Mauger) (US 5,537,610) as applied to claim 16, 17 above, and further in view of Fujii (US 5,818,918).

Regarding **claim 20**, the combination of Widergen and Mauger fails to disclose having the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry. However, the examiner maintains that the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry was well known in the art, as taught by Fujii.

In the same field of endeavor, Fujii discloses the feature calls from the MS in the common cell area (18) to the public PHS network (11) which reads on the claimed “public mobile communication network” are directly connected and interworked with the public mobile communication network (11) without having to go through additional circuitry (see col. 2, lines 25-45; Figs. 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen, Mauger, and Fujii to have the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry, in order to provide a personal

handy phone system which enables communication between a private PHS base station and a public PHS terminal, as taught by Fujii (see col. 1, lines 37-39).

Regarding **claim 21**, the combination of Widergen and Mauger fails to disclose having the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry. However, the examiner maintains that the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry was well known in the art, as taught by Fujii.

Fujii further discloses the feature calls from the MS in the common cell area (18) to the public PHS network (11) which reads on the claimed “public mobile communication network” are directly connected and interworked with the public mobile communication network (11) without having to go through additional circuitry (see col. 2, lines 25-45; Figs. 1).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen, Mauger, and Fujii to have the feature calls from the MS in the common cell area to the public mobile communication network are directly connected and interworked with the public mobile communication network without having to go through additional circuitry, in order to provide a personal handy phone system which enables communication between a private PHS base station and a public PHS terminal, as taught by Fujii (see col. 1, lines 37-39).

Claims 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Widergen et al. (hereinafter Widergen) (US 5,890,064) in view of Mauger et al. (hereinafter Mauger) (US 5,537,610) as applied to claim 16, 17 above, and further in view of Lu et al. (hereinafter Lu) (US 5,537,610).

Regarding **claim 22**, the combination of Widergen and Mauger fails to disclose having the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network. However, the examiner maintains that the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network was well known in the art, as taught by Lu.

In the same field of endeavor, Lu discloses the feature calls from the MS (458) in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network (see col. 15, lines 41-63; Figs. 6A, 7, 12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen, Mauger, and Lu to have the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network, in order to reduce the usage of public network bandwidth with a consequent reduction in the charges, as taught by Lu (see col. 15, lines 60-63; col. 6, lines 64-67).

Regarding **claim 24**, the combination of Widergen and Mauger fails to disclose having the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network. However, the examiner maintains that the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network was well known in the art, as taught by Lu.

Lu further discloses the feature calls from the MS (458) in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network (see col. 15, lines 41-63; Figs. 6A, 7, 12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen, Mauger, and Lu to have the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network, in order to reduce the usage of public network bandwidth with a consequent reduction in the charges, as taught by Lu (see col. 15, lines 60-63; col. 6, lines 64-67).

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Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Widergen et al. (hereinafter Widergen) (US 5,890,064) in view of Lu et al. (hereinafter Lu) (US 5,537,610).

Regarding **claim 23**, Widergen discloses fails to disclose having the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network. However, the examiner maintains that the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network was well known in the art, as taught by Lu.

Lu further discloses the feature calls from the MS (458) in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network (see col. 15, lines 41-63; Figs. 6A, 7, 12).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Widergen and Lu to have the feature calls from the MS in the common cell area to the private mobile communication service are not routed through a public mobile communications network and are not routed through a landline telephone network, in order to reduce the usage of public network bandwidth with a consequent reduction in the charges, as taught by Lu (see col. 15, lines 60-63; col. 6, lines 64-67).

Response to Petition

5. The petitions filed on 08 April 2005 and 31 May 2005 under 37 CFR 1.181 are acknowledged. The concerns of the petition filed on 08 April 2005 are addressed in item 6 of this action and the concerns of the petition filed on 31 May 2005 are addressed in item 8 of this action.

Information Disclosure Statement

6. The information disclosure statement (IDS) submitted on 18 February 2005 was considered in the office action mailed on 28 March 2005 with the exception of Document No. CN 1,148,778A. Document No. CN 1,148,778A is hereby being considered.
7. As a note, for item 6 see US Patent 5,818,918 which may correspond to Document No. CN 1,148,778A.
8. Regarding applicant's argument of claims 16-19 on pg. 2, item 3, "...without commenting or addressing applicant's traversal...", the Examiner respectfully disagrees. In the RCE amendment filed 03 January 2005, new claims 20-27 were added to the instant application that are dependent on the corresponding claims 16, 17, and 19. The rejections applied in the office action mailed on 28 March 2005 must address applicant's traversal as the arguments are based on the claims in which the rejections are applied against.

Response to Arguments

9. Applicant's arguments filed 14 December 2005 have been fully considered but they are not persuasive.

The Examiner respectfully disagrees with applicant's arguments as the applied reference(s) provide more than adequate support and to further clarify (see the above claims and comments in this section).

10. As a result of applicant filing a response on 14 December 2005, the Examiner will further address applicant's arguments to move prosecution forward.

11. Regarding applicant's argument of claim 19 on pg. 11, section I., 2nd ¶, "...numeral 142 of Widergen '064 is a public/private common cell area...applicant disagrees...", the Examiner respectfully disagrees. Widergen discloses a public/private common cell area (e.g., wireless office system 142) (see col. 3, line 61 - col. 4, line 4; col. 4, lines 27-33; Fig. 1), where the wireless office system (142) provides private and public communication services for mobile terminals (CMT, PMT, 116, 120) (see col. 7, lines 28-29,55-57; col. 8, lines 21-24; col. 9, lines 1-4,39-41; col. 11, lines 28-29; col. 12, lines 1-2; col. 14, lines 12-13,51-52; Fig. 1) as would be **clearly** recognized by one of ordinary skill in the art. Furthermore, Widergen additionally discloses a PLMN (102) (see col. 3, lines 64-66; Fig. 1) which has a common area that includes both public (140) and private (142) communication systems (see col. 3, line 66 - col. 4, line 4) which would be **clearly** recognized by one of ordinary skill in the art.

12. In addition, private cells typically overlap or are in common with a public cell which would be **clearly** recognized by one of ordinary skill in the art. For example, a mobile

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terminal that is in previously in a public cell may roam into the operation range of a private cell but may very well continue to communicate with the public cell that overlaps and has the range to communicate with the mobile terminal.

13. Regarding applicant's argument of claims 16-18, the claims include the feature

"...common cell area..." that has been addressed in the reasons above applied to claim 19.

14. Regarding applicant's argument of claims 16-18 on pg. 13, section B., "...no

transparent transmission of a call...", the Examiner respectfully disagrees. Widergen

discloses the public/private communication service unit (124) being configured to

transparently transmit the call origination message when the call origination message is a

public mobile communication service request message (see col. 13, lines 50-57; col. 10, line

56 - col. 11, line 1;), where calls for the public system is routed between the WO Gateway

(124) and the MSC (112) via the trunk line. The Examiner request clarification of the usage

of the term "...transparently..." in particular, how is "transparently" clearly defined by the

specification. In the paragraph bridging pgs. 9-10, applicant attempts to be correlating the

term "...transparently..." with the phrase "...without any additional circuitry..." which is not

clear. The Examiner suggests that the applicant clarify the claim language. Also, the

Examiner respectfully requests the applicant to provide page(s), line(s), and figure(s) of the

instant application that supports the limitation of the claim(s) and/or any supportive

comment(s) to help clarify and resolve this issue(s).

15. In response to applicant's arguments against the references individually, one cannot

show nonobviousness by attacking references individually where the rejections are based on

combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Regarding applicant's arguments of claims 20-27, the claims have been addressed by the reasons above and as applied in each claim rejection.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Willie J. Daniel, Jr. whose telephone number is (571) 272-7907. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

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(toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WJD,JR/

WJD,JR
20 July 2006



ERIKA A. GARY
PRIMARY EXAMINER